

# Neochlorogenic acid

Catalog No: tcsc3770



## Available Sizes

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

906-33-2

**Formula:**

$C_{16}H_{18}O_9$

**Pathway:**

Immunology/Inflammation;Immunology/Inflammation;Apoptosis;NF-κB

**Target:**

Interleukin Related;COX;TNF Receptor;NF-κB

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 11 mg/mL (31.05 mM; Need ultrasonic and warming)

**Alternative Names:**

trans-5-O-Caffeoylquinic acid

**Observed Molecular Weight:**

354.31

## Product Description

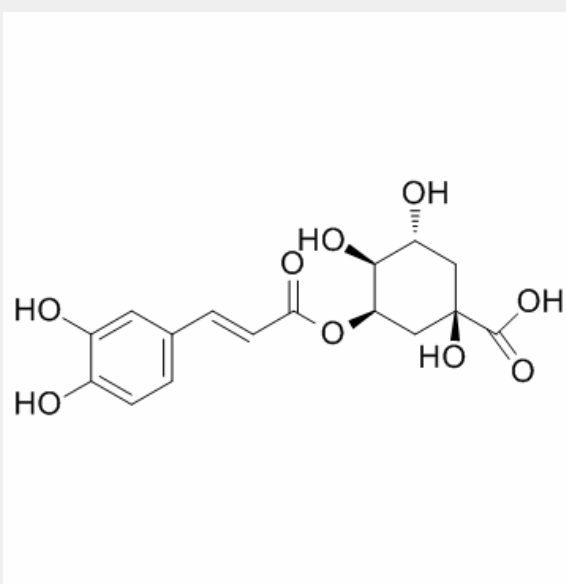
Neochlorogenic acid is a natural polyphenolic compound found in dried fruits and other plants. Neochlorogenic acid inhibits the production of **TNF-α** and **IL-1β**. Neochlorogenic acid suppresses **iNOS** and **COX-2** protein expression. Neochlorogenic acid also

inhibits phosphorylated **NF-κB p65** and **p38 MAPK** activation.

IC50 & Target: NF-κB p65, p38 MAPK, IL-1β, TNF-α, COX-2, iNOS<sup>[1]</sup>

***In Vitro:*** Neochlorogenic acid (NCA) shows a reduction of lipopolysaccharide (LPS)-induced NO production by suppressing iNOS and COX-2 protein expression and production of pro-inflammatory cytokines, such as TNF-α and IL-1β, in BV2 microglia cells.

In addition, phosphorylated p38 MAPK and NF-κB p65 are also inhibited by Neochlorogenic acid in activated microglia. iNOS and COX-2 levels are increased in LPS-induced BV2 cells, but this increase is significantly inhibited after treatment with 50 and 100 μM Neochlorogenic acid<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!